

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	225704	(overvoltage transient excessive adj voltage)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 12:59
S2	147	S1 same resistor\$1 near (MOV zener adj diode transorb)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 16:20
S3	86	S2 same protect\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 11:32
S4	12430	resistor\$1 same parallel same (MOV zener adj diode transorb)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 11:33
S5	2155	S4 same protect\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 13:51
S6	1350	(impedance resistor\$1 resistance) adj3 parallel with (MOV zener adj diode transorb)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 11:35
S7	342	(impedance resistor\$1 resistance) adj3 parallel adj2 (MOV zener adj diode transorb)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 12:42
S8	41	S7 same variable	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 11:44
S9	2	S8 same ( overcurrent overvoltage transient excessive adj voltage)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 11:48
S10	2	S8 same ( surge surges overcurrent overvoltage transient excessive adj voltage)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 15:58
S11	985	361/212.cds.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 11:50
S12	1	361/212.cds. and (impedance resistor\$1 resistance) adj3 parallel adj2 (MOV zener adj diode transorb)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 11:51

## EAST Search History

S13	0	361/91.1,91.2,91.3 and (impedance resistor\$1 resistance) adj3 parallel adj2 (MOV zener adj diode transorb)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 11:52
S14	0	361/91.1,91.2,91.3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 11:52
S15	1	361/91.1,91.2,91.3.ccls. and (impedance resistor\$1 resistance) adj3 parallel adj2 (MOV zener adj diode transorb)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 11:56
S16	67	361/91.1,91.2,91.3.ccls. and variable adj (resistor resistance impedance)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 14:07
S17	17	361/91.1,91.2,91.3.ccls. and variable adj (resistor resistance impedance) same (zener adj diode mov transorb)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 14:20
S18	9	("3778743"   "4233641"   "4240124"   "4320436"   "4345290"   "4439807"   "4604673"   "4803588"   "4809124").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/05 12:26
S19	13	("3778743").URPN.	USPAT	OR	ON	2006/04/05 12:28
S20	9	361/117,118.ccls. and variable adj (resistor resistance impedance) same (zener adj diode mov transorb)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 12:33
S21	15	S1 same (impedance resistor\$1 resistance) adj3 parallel adj2 (zener adj diode transorb)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 12:38
S22	508968	(overvoltage transient excessive adj voltage high adj voltage\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 12:40
S23	5280	S22 same (spark\$3 annular) adj gap	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 12:42
S24	0	S23 same (impedance adj unit impedance resistor\$1 resistance) adj3 parallel adj2 (zener adj diode\$1 transorb\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 12:44
S25	0	S23 same (impedance resistor\$1 resistance) adj3 parallel adj2 (zener adj diode\$1 transorb\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 12:57

## EAST Search History

S26	34	S23 same (impedance resistor\$1 resistance) same parallel same (zener adj diode\$1 transorb\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 12:46
S27	299	(resistor\$1) adj3 parallel adj2 (zener adj diode\$1 MOV transorb\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 13:00
S28	445	(resistor\$1) adj3 (coupled parallel) adj2 (zener adj diode\$1 MOV transorb\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 13:45
S29	71	S28 same (surge surges high adj current high adj voltage overcurrent overvoltage transient excessive adj voltage)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 13:02
S30	0	S29 same (prevent\$1) near (spark\$3 arc\$3) same gap	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 13:58
S31	0	S29 same (prevent\$1) near (spark\$3 arc\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 13:02
S32	0	S29 same (spark\$3 arc\$3) same gap	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 13:51
S33	7	(resistor\$1) adj3 (coupled parallel) adj2 (MOV transorb\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 13:45
S34	2	("5576920").URPN.	USPAT	OR	ON	2006/04/05 13:48
S35	9	("4095163"   "4758920"   "4941063"   "5416663"   "5422777"   "5521768"   "5572397"   "5576920"   "5587876").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/05 13:51
S36	850	S4 same protect\$3 with resistor\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 13:51
S37	25	S36 same (spark\$3 arc\$3) same gap	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 13:53
S38	2	("4,625,254").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/04/05 13:53
S39	4	("4625254").URPN.	USPAT	OR	ON	2006/04/05 13:55

## EAST Search History

S40	1187	(prevent\$1) near (spark\$3 arc\$3) same gap	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 13:58
S41	0	S40 same resistor\$1 near (MOV zener adj diode transorb)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 13:59
S42	107480	variable adj (resistor resistance impedance)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 14:08
S43	5121	S42 same (mov transorbs zener adj diode)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 14:09
S44	50	S43 same third adj resistor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 14:13
S45	0	first adj resistor with second adj resistor with third adj resistor same first adj (zener adj diode transorb) same second adj (zener adj diode transorb)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 14:16
S46	29	first adj resistor with second adj resistor with third adj resistor same first adj (zener adj diode transorb) same second adj (zener adj diode transorb)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 14:16
S47	1	361/91.1,91.2,91.3,117,118.ccls. and first adj resistor same second adj resistor same third adj resistor same first adj (zener adj diode transorb) same second adj (zener adj diode transorb)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 14:23
S48	229	361/91.1,91.2,91.3,117,118.ccls. and resistor same (zener adj diode transorb)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 16:08
S49	0	361/91.1,91.2,91.3,117,118.ccls. and resistor\$1 adj3 (coupled connected) adj2 paraellel adj2 (zener adj diode transorb)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 14:35
S50	0	resistor\$1 adj3 (coupled connected) adj2 paraellel adj2 (zener adj diode transorb)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 14:35
S51	0	resistor\$1 same (coupled connected) same paraellel same (zener adj diode transorb)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 14:36

## EAST Search History

S52	1205	S42 same resistor\$1 near3 (MOV transorb zener)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 15:58
S53	1082	S52 same ( current voltage transient excessive adj voltage)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 16:01
S54	541	S53 same (low high exceed\$1 breakdown adj voltage)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 16:02
S55	86	S54 same (difference)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 16:05
S56	0	S54 same (air adj terminal\$1 lightning adj terminals)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 16:06
S57	0	S53 same (air adj terminal\$1 lightning adj terminals)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 16:06
S58	0	S52 same (air adj terminal\$1 lightning adj terminals)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 16:06
S59	4	S52 same (air adj terminal\$1 lightning adj terminals arrester)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 16:07
S60	4	S53 same (air adj terminal\$1 lightning adj terminals arrester)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 16:07
S61	3	S54 same (air adj terminal\$1 lightning adj terminals arrester)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 16:08
S62	303	361/91.1,91.2,91.3,117,118.ccls. and resistor same (zener adj diode transorb mov)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 16:08
S63	29	S62 and (air adj terminal\$1 lightning adj terminals arrester)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 16:15

## EAST Search History

S64	16	S2 same (conduct\$4 input adj voltage) same (gnd ground\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 16:16
S65	10	resistor\$1 adj3 (transorb\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 16:21
S66	14	resistor\$1 adj4 (transorb\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 16:22
S67	81	resistor\$1 same (transorb\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 16:22
S68	0	(10/611574).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/04/05 16:44
S69	0	(10/611,574).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/04/05 16:44
S70	1	10/611,574	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/04/05 16:44
S71	5	("4099216"   "4698740"   "4835462"   "5107202"   "5644215").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/05 17:17
S72	13	("4099216").URPN.	USPAT	OR	ON	2006/04/05 17:17